Performance Data Sheet

AWF5516EXN

General Information

Model	AWF5516EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3950	3540					
	Watts	630	646					
	Amps	2.93	2.98					
	Lb/h	51.0	47.5					
-10	Btu/h	4710	4180	3630				
	Watts	683	700	704				
	Amps	3.15	3.21	3.22				
	Lb/h	60.5	55.8	50.6				
-5	Btu/h	5700	5040	4370	3690			
	Watts	736	756	763	758			
	Amps	3.37	3.45	3.47	3.45			
	Lb/h	72.6	66.8	60.4	53.2			
0	Btu/h	6900	6110	5310	4500	3680		
	Watts	788	813	824	822	809		
	Amps	3.58	3.68	3.73	3.72	3.67		
	Lb/h	87.4	80.4	72.9	64.5	55.1		
5	Btu/h	8320	7400	6460	5520	4570		
	Watts	837	869	886	889	881		
	Amps	3.78	3.92	3.98	4.00	3.97		
	Lb/h	105	96.6	88.0	78.5	68.0		
10	Btu/h	9950	8890	7820	6740	5660	4570	3460
	Watts	883	923	947	958	956	943	921
	Amps	3.97	4.14	4.24	4.29	4.28	4.24	4.16
	Lb/h	124	115	106	95.1	83.6	70.7	56.2
15	Btu/h	11800	10600	9370	8160	6940	5710	4470
	Watts	924	973	1010	1030	1030	1030	1010
	Amps	4.14	4.35	4.49	4.57	4.60	4.59	4.54
	Lb/h	146	136	126	114	102	87.7	72.3
20	Btu/h	13800	12500	11100	9770	8410	7040	5660
	Watts	957	1020	1060	1090	1110	1110	1110
	Amps	4.28	4.54	4.73	4.85	4.92	4.94	4.92
	Lb/h	170	160	148	136	122	107	90.9

25	Btu/h	16000	14500	13100	11600	10100	8550	7030
	Watts	984	1060	1120	1160	1180	1200	1200
	Amps	4.38	4.70	4.94	5.11	5.23	5.29	5.31
	Lb/h	197	185	173	159	145	129	112
30	Btu/h	18500	16800	15200	13500	11900	10200	8570
	Watts	1000	1090	1160	1220	1260	1280	1300
	Amps	4.45	4.83	5.13	5.36	5.53	5.64	5.71
	Lb/h	225	213	199	185	170	154	135
35	Btu/h	21100	19300	17500	15700	13900	12100	10300
	Watts	1010	1110	1200	1270	1330	1370	1390
	Amps	4.47	4.93	5.29	5.58	5.81	5.98	6.10
	Lb/h	255	242	228	213	197	180	161
40	Btu/h	23800	21900	20000	18000	16100	14100	12200
	Watts	1000	1120	1230	1320	1390	1450	1490
	Amps	4.45	4.98	5.42	5.78	6.07	6.30	6.48
	Lb/h	287	274	259	244	227	209	189
45	Btu/h	26800	24700	22600	20500	18400	16300	14200
	Watts	981	1130	1250	1360	1450	1520	1580
	Amps	4.37	4.98	5.50	5.94	6.30	6.60	6.85
	Lb/h	321	307	292	276	258	239	219
50	Btu/h	29900	27700	25400	23200	20900	18600	16400
	Watts	947	1110	1260	1380	1490	1590	1670
	Amps	4.23	4.93	5.53	6.05	6.50	6.87	7.19
	Lb/h	357	342	326	309	291	272	251
55	Btu/h	33200	30800	28400	26000	23600	21100	18700
	Watts	897	1090	1250	1400	1530	1650	1750
	Amps	4.02	4.82	5.51	6.12	6.65	7.11	7.51
	Lb/h	394	378	362	345	327	307	285

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.326781E+04	-1.165405E+02	-4.567682E-01	1.509608E+02
C2	4.813451E+02	-3.084140E+00	-2.527358E-02	4.816284E+00
C3	-8.210633E+01	2.095011E+01	9.682163E-02	-1.165382E+00
C4	4.723363E+00	-3.192840E-01	-1.265482E-03	4.051104E-02
C5	-2.811893E+00	2.141333E-01	1.114860E-03	-1.876066E-02
C6	5.909512E-02	-1.412046E-01	-6.979730E-04	7.788124E-03
C7	-6.166828E-03	-1.823952E-03	-7.492222E-06	-1.233834E-04
C8	-5.723736E-03	3.375779E-03	1.327888E-05	1.162537E-04
C9	9.739906E-04	-6.001263E-04	-3.445893E-06	-1.752592E-05
C10	-3.370295E-04	2.576106E-04	1.479903E-06	-3.944027E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature